(DOD PHOTO)

SENSIAC

Military Sensing Information Analysis Center

The Military Sensing Information Analysis Center (SENSIAC) is a Department of Defense (DoD) Information Analysis Center, funded by the Defense Technical Information Center (DTIC). SENSIAC specializes in Military Sensing Technology (MST); including infrared and electro-optics; radar; acoustics; nuclear, biological, and chemical sensing; and provides products and services for the research, design, development, test and evaluation, and operation of systems employing MST in support of national defense and homeland security.

SENSIAC is on call for problem solving, with automated literature alerts, and with providing the "right" Subject Matter Experts (SMEs). We capture information through Technology Watch, refine the information into knowledge, and incorporate it into searchable databases and effective products.

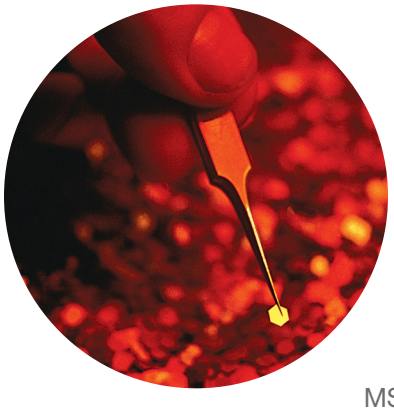
SENSIAC provides MST information products and services to all levels of government, government contractors or subcontractors, educational institutions, and infrastructure/ tech-base organizations involved directly and indirectly in applying sensing technologies to the defense of the US. SENSIAC enables the progress of military sensing, and its mission is to make jobs that relate to sensing easier, faster, more efficient, and less costly than they would otherwise be.

SENSIAC provides the MST community with access to a unique university research institute team that helps redefine the MST state of the art every day. The SENSIAC "think ahead of the box" team:

- Leverages $3.8B in annual applicable research,
- Is an independent "trusted agent,"
- Spans all military sensing, and
- Is available to both government and industry.

Five SENSIAC thrusts respond to the MST's community requirements with a full-service array of offerings:

- Development of the MST Knowledge Base
- Information Products and Services provides free, call-in problem solving; informational searches and compilations; extended research; studies; and technical support through Technical Area Tasks (TATs). SENSIAC can respond to both government's and industry's MST requirements using a expedited contracting system that puts a client on contract in 2–4 weeks and accommodates efforts from small studies



to mega-projects involving hundreds of researchers and engineers.

- A unique SENSIAC Educational Program provides continuing education, mentoring, and certificate programs in MST areas.
- Operation of the Military Sensing Symposia provides a forum in which SMEs, researchers, and developers gather to share knowledge.
- The SENSIAC University Research Portal facilitates the rapid transition of cutting-edge research to military application.

SENSIAC serves a broad community:

- **Basic Research**—investigating the physics of MST technologies, such as researching lattice structures in detector materials.
- **Phenomenology**—characterizing a technology and the effects of the environment on it, such as measuring foliage penetration of specific radar frequencies.
- **Applied Research**—fabricating a prototype device to verify that a phenomenon can be used in a practical application or in developing an engineering model, such as developing a new type of seismic sensor.
- **Production**—manufacturing a system, such as developing a new production-line test of sensor resolution.
- **Program Management**—helping to formulate plans for acquiring and deploying an operational system, such as performing an analysis to help select which sensor technology to use in a micro-Unmanned Aerial Vehicle (UAV).
- **Warfighter**—for soldiers, using sensing equipment in the field, such as providing a training program to help soldiers identify tanks using acoustic signatures.
- **Warfighter**—for operational decision makers, making decisions on the deployment of personnel and assets, such as providing aids to field commanders who must decide whether to apply aircraft with all-weather radar or Forward-Looking Infrared Radar (FLIR) to a mission.
- **Warfighter**—for operation and maintenance personnel who are responsible for maintaining sensing equipment in the field, such as providing a Logistics Manager with durability information for an optical window to ensure adequate spares.
- **Policy Makers**—charged with decisions as to the allocation of development and acquisition funds, such as providing the Office of the Secretary of Defense (OSD) person trade-offs regarding alternative, next-generation, concealed-explosive-detection technology.

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